

EXHIBIT O

**Excerpts from June 19, 2020 deposition of
Oracle's expert, Barbara Frederiksen-Cross**

PUBLIC REDACTED VERSION

In The Matter Of:

Oracle v.

Rimini Street

Barbara Frederiksen-Cross

June 19, 2020

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER



Min-U-Script® with Word Index

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1 UNITED STATES DISTRICT COURT
 2 DISTRICT OF NEVADA
 3
 4 ORACLE USA, INC., et al.,
 5 Plaintiffs,
 6 vs. Case No.: 2:10-cv-00106-LRH-VCF
 7 RIMINI STREET, INC., et al.,
 8 Defendants.
 9 -----/
 10
 11 * HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER *
 12 REMOTELY CONDUCTED VIDEOTAPED
 13 EXPERT WITNESS DEPOSITION OF
 14 BARBARA FREDERIKSEN-CROSS
 15 Wilsonville, Oregon
 16 (Witness's location)
 17 Friday, June 19, 2020
 18
 19
 20
 21 Stenographically reported by:
 22 LORRIE L. MARCHANT, RMR, CRR, CCRR, CRC
 23 California CSR No. 10523
 24 Washington CSR No. 3318
 25 Oregon CSR No. 19-0458
 Texas CSR No. 11318
 Job No.: 2020-86014

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1 UNITED STATES DISTRICT COURT
 2 DISTRICT OF NEVADA
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 4 ORACLE USA, INC., et al.,
 5 Plaintiffs,
 6 vs. Case No.: 2:10-cv-00106-LRH-VCF
 7 RIMINI STREET, INC., et al.,
 8 Defendants.
 9 -----/
 10
 11
 12 BE IT REMEMBERED that on Friday, June 19,
 13 2020, commencing at the hour of 8:58 a.m. PDT,
 14 thereof, at the offices of Wilsonville, Oregon
 15 (witness's location), before me, LORRIE L. MARCHANT,
 16 CSR, RMR, CRR, CCRR, CRC, a Certified Stenographic
 17 Shorthand Reporter for the State of California,
 18 personally appeared
 19 BARBARA FREDERIKSEN-CROSS,
 20 called as a witness by the Defendant herein, who,
 21 being by me first duly sworn/affirmed, was thereupon
 22 examined and testified as hereinafter set forth.
 23 ---oOo---
 24
 25

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1 A P P E A R A N C E S
 2 (All appearances remotely via Zoom)
 3
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 20 Also present:
 21 John P. Reilly, Rimini in-house Counsel
 22 Lisa Debrosse Johnson, Rimini in-house
 Counsel
 23 Jim Maroulis, Oracle in-house Counsel
 24 Aydaline Garcia, Zoom host
 Juan Torres, documents technician
 25 ---oOo---

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 12 Exhibit 1856 Rebuttal Expert Report of 29
 Professor Owen Astrachan, dated
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 14 Exhibit 1857 Document produced in native 71
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 16 Exhibit 1858 Diagram 96
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1 I wanted something printed a different way. So
 2 where I felt that I needed to give input, I did.
 3 BY MR. VANDEVELDE:
 4 Q. Got it.
 5 Did you personally review and approve all
 6 the exhibits attached to your report?
 7 A. I did, yes.
 8 Q. Okay.
 9 MR. VANDEVELDE: If the document technician
 10 could show Exhibit 1854, paragraph 56.
 11 MR. POLITO: And pardon me, Eric, for these
 12 documents, we're not going to require that a full
 13 copy be sent since we all have a copy. But just to
 14 be clear, this is the corrected report. It doesn't
 15 include other materials, like the redline version or
 16 the errata? I'm just trying to figure out where the
 17 document ends since we don't have a physical copy.
 18 MR. VANDEVELDE: Oh. Well, the document we
 19 marked is just the report itself, John. It is not
 20 all the exhibits.
 21 MR. POLITO: Okay. Thank you.
 22 MR. VANDEVELDE: So 1854 is just the
 23 report.
 24 MR. POLITO: And 1855, the same thing for
 25 the surrebuttal.

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1 MR. VANDEVELDE: Is just the surrebuttal.
 2 MR. POLITO: And the last question, I
 3 apologize.
 4 MR. VANDEVELDE: Sure. No problem.
 5 MR. POLITO: You mentioned Tab 1 and Tab 2.
 6 Is there something you're referring to that you
 7 intended to send to us that had tabs in it?
 8 MR. VANDEVELDE: No, John. That's just our
 9 internal reference. If I had a box of documents
 10 physically, I would have them -- tab numbers. I'm
 11 just letting the document technician know which one
 12 I'm referring to before I mark it.
 13 MR. POLITO: Thank you.
 14 MR. VANDEVELDE: You'll get the pleasure of
 15 doing the same potentially next week, I assume.
 16 BY MR. VANDEVELDE:
 17 Q. Okay. Ms. Frederiksen-Cross, before you,
 18 this is paragraph 56 of your opening report. And as
 19 you write:
 20 "As explained in my Rimini II
 21 reports, a PeopleSoft environment is an
 22 installed copy of Oracle's copyrighted
 23 PeopleSoft software."
 24 I'll also represent that in Exhibit XX of
 25 your opening report in Rimini II, you wrote that an

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1 environment is typically computing machine, real or
 2 virtual, in which a specific system is installed and
 3 capable of being run.
 4 So my question to you is did you find any
 5 evidence that Rimini had any PeopleSoft environments
 6 on Rimini's systems in the post-injunction time
 7 period?
 8 MR. POLITO: Objection. Overbroad.
 9 THE WITNESS: Let me just double check my
 10 table of contents here. But as I sit here, the only
 11 ones that I recall specifically were the ZZ
 12 environments, you know, that they had retained for
 13 litigation purposes that were produced in the
 14 context of the other litigation.
 15 BY MR. VANDEVELDE:
 16 Q. Got it.
 17 So other than those, you found no evidence
 18 that Rimini had installed on its own computer
 19 systems any PeopleSoft environments?
 20 MR. POLITO: Same objections.
 21 THE WITNESS: During the post-injunction
 22 time period as bounded by the injunction, that is my
 23 recollection, yes.
 24 BY MR. VANDEVELDE:
 25 Q. Okay. How about for -- same question as to

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1 JDE.
 2 MR. POLITO: Objection. Overbroad. Object
 3 to the form of the question.
 4 THE WITNESS: I'm thinking, Counsel. I do
 5 not recall any JDE environments post injunction.
 6 Again, I'm trying to recall whether there were any
 7 ZZ/JDE, and I don't -- I don't think so, that those
 8 were even cc'd. But I don't recall as I sit here
 9 any active environments, if I can qualify my
 10 question that way -- or my answer that way.
 11 BY MR. VANDEVELDE:
 12 Q. Okay. And when you say "active," you mean
 13 the ones that were preserved, that were ZZ'ed for
 14 litigation purposes?
 15 A. Well, I would call those archived.
 16 Q. Archived.
 17 A. And I -- anything that was preserved for
 18 litigation purposes from the standpoint of this
 19 question is a free pass.
 20 But by "active," I mean those that were
 21 actively being used for development, testing, or
 22 customer use.
 23 Q. Okay. And I'm asking not just about being
 24 used. I'm asking about presence. So let me ask
 25 again.

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1 After the injunction, did you find any
 2 evidence, putting aside ZZ, the archived
 3 environments, any evidence that Rimini stored or
 4 possessed on its systems any JDE environment?
 5 MR. POLITO: Objection. Overbroad.
 6 Compound.
 7 THE WITNESS: I do not recall any, Counsel.
 8 BY MR. VANDEVELDE:
 9 Q. Okay. Same question as to Oracle database.
 10 After the injunction, did you find any
 11 evidence, putting aside any ZZ ones, if they did
 12 exist, any evidence that Rimini stored or possessed
 13 on its systems any Oracle database environments?
 14 MR. POLITO: Objection. Overbroad.
 15 Compound. Vague.
 16 THE WITNESS: With respect to the materials
 17 that were produced for my inspection, Counsel -- and
 18 I should qualify that for all of the answers.
 19 With respect to the materials that I was
 20 provided production, I did not see any full-blown
 21 Oracle database system on Rimini's own production of
 22 materials.
 23 BY MR. VANDEVELDE:
 24 Q. After the injunction, putting aside any
 25 archived-for-litigation-purposes materials, did you

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1 see any evidence of any Oracle software environments
 2 at all, any Oracle software?
 3 MR. POLITO: Objection. Overbroad.
 4 Compound. Vague.
 5 THE WITNESS: With respect to, for
 6 instance -- and I'm sure we'll go there eventually,
 7 but with respect, for instance, to the Windstream
 8 environments, there was Oracle environments there
 9 and PeopleSoft environments there. So you didn't
 10 qualify that question to Rimini's systems.
 11 BY MR. VANDEVELDE:
 12 Q. I think I did. But, yeah, I meant Rimini's
 13 systems.
 14 A. On Rimini's internal systems, I do not
 15 recall seeing any Oracle database installation.
 16 Q. I asked about any Oracle software, not
 17 limited to JD, Oracle database, or PeopleSoft, just
 18 any Oracle software environments at all on Rimini's
 19 systems after the injunction.
 20 MR. POLITO: So -- sorry. Objection.
 21 Vague. Compound. Overbroad.
 22 THE WITNESS: I'm going to have to ask you
 23 to clarify. When we're talking about environments,
 24 it's a very easy answer, you know. But when you
 25 talk about software generally, I would include

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1 things like updates or portions of updates to
 2 software.
 3 And we did find some evidence with respect
 4 to some of these composite pieces, for instance, on
 5 the FTP servers. And so if you can clarify when you
 6 ask software, whether you're talking about the
 7 running installation or what exactly.
 8 BY MR. VANDEVELDE:
 9 Q. Yeah. No, I understand. I'm talking about
 10 environments, as you defined them.
 11 MR. POLITO: Hold on. The objections are
 12 compound. Overbroad.
 13 THE WITNESS: In the post-injunction
 14 period, I did not find running environments for the
 15 enjoined products on Rimini's systems.
 16 BY MR. VANDEVELDE:
 17 Q. Let's talk about your definition of
 18 "derivative works."
 19 Did you apply the same definition for
 20 "derivative works" that you used in your expert
 21 reports in Rimini II?
 22 A. I set forth in my report the expert -- or
 23 the interpretation of that term as I applied it
 24 here. And I believe it is the same as Rimini II,
 25 but I haven't compared them word for word, so ...

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1 MR. VANDEVELDE: Okay. And, actually, if
 2 the document technician could show paragraph 13 of
 3 her opening report, which is 1854.
 4 BY MR. VANDEVELDE:
 5 Q. So you write:
 6 "I understand that Section 101 of the
 7 Copyright Act defines 'derivative work'
 8 and 'relevant parts' as 'a work based
 9 upon one or more preexisting work, such
 10 as a translation, or any other form in
 11 which a work may be recast, transformed,
 12 or adapted.'"
 13 Were you provided this definition by Oracle
 14 counsel?
 15 A. I was. That was a legal definition that I
 16 was provided.
 17 Q. Did Oracle counsel provide you any further
 18 definition or guidance about what a derivative work
 19 means?
 20 MR. POLITO: Objection. Overbroad.
 21 THE WITNESS: Not that I can think of as I
 22 sit here, Counsel, beyond what was recorded in my
 23 Rimini II report also.
 24 BY MR. VANDEVELDE:
 25 Q. And if, for example, that word,

| | |
|--|---|
| <p>Page 145</p> <p>1 but rather just says Rimini shall not use a specific</p> <p>2 licensee's environment to development or test</p> <p>3 software updates for modifications for the benefit</p> <p>4 of any other licensee.</p> <p>5 BY MR. VANDEVELDE:</p> <p>6 Q. Was any Oracle -- strike that.</p> <p>7 Could the engineer -- do you contend it's a</p> <p>8 violation of the injunction for the engineer to</p> <p>9 create a dev instruction that says delete line,</p> <p>10 let's say, 200 from file X?</p> <p>11 MR. POLITO: Objection. Incomplete</p> <p>12 hypothetical. Vague.</p> <p>13 THE WITNESS: Assuming that -- again, that</p> <p>14 the development work to develop the fix was done on</p> <p>15 Client A's system and tested there, and then the</p> <p>16 Rimini engineer writes that dev spec, are you saying</p> <p>17 is the creation of a document that says that a</p> <p>18 violation, or were you asking is the use of that</p> <p>19 document a violation?</p> <p>20 BY MR. VANDEVELDE:</p> <p>21 Q. To start with, just the creation of that</p> <p>22 document.</p> <p>23 MR. POLITO: Same objections.</p> <p>24 THE WITNESS: Yeah. It would depend in</p> <p>25 part on what the document contains. But in this</p> | <p>Page 147</p> <p>1 and then it's got the name of the function in the</p> <p>2 dev instruction? Is the creation of that dev</p> <p>3 instruction, in your view, a violation of the</p> <p>4 injunction?</p> <p>5 MR. POLITO: Objection. Incomplete</p> <p>6 hypothetical. Vague. Object to the extent it calls</p> <p>7 for a legal conclusion.</p> <p>8 THE WITNESS: And, again, I'm going to read</p> <p>9 a couple of things in here. Assuming, first of all,</p> <p>10 that the dev instruction is created on Client A's</p> <p>11 system and only ever used for Client A's system, and</p> <p>12 it doesn't contain Oracle code, then the existence</p> <p>13 of that document at that point does not constitute a</p> <p>14 violation.</p> <p>15 It's when that document is used to</p> <p>16 propagate that solution for a benefit of another</p> <p>17 customer. And so we're not talking a copying issue</p> <p>18 here. We're really just talking a cross-use issue.</p> <p>19 BY MR. VANDEVELDE:</p> <p>20 Q. How -- stepping aside from the</p> <p>21 hypothetical -- and maybe just take this down. And</p> <p>22 this will be the last short line of questioning.</p> <p>23 Take down the exhibit.</p> <p>24 How can Rimini implement the same update</p> <p>25 for multiple clients without, in your view,</p> |
| <p>Page 146</p> <p>1 really narrow hypothetical, where it just instructs</p> <p>2 someone to go to a particular file and delete a</p> <p>3 particular line, and it hasn't been shared with</p> <p>4 other customers or used on other customer</p> <p>5 environments, and it doesn't actually contain the</p> <p>6 line, it just says "go to this file, delete this</p> <p>7 line," that is probably is not a violation of</p> <p>8 anything.</p> <p>9 BY MR. VANDEVELDE:</p> <p>10 Q. But once that instructions is used with</p> <p>11 Client B, you contend that's a violation of the</p> <p>12 injunction?</p> <p>13 MR. POLITO: Objection. Incomplete</p> <p>14 hypothetical. Vague. Calls for a legal conclusion.</p> <p>15 THE WITNESS: Under my understanding of the</p> <p>16 injunction, again, that Rimini engineer has now used</p> <p>17 the Client A's specific environment to develop and</p> <p>18 test software updates or modifications and is now</p> <p>19 using that for the benefit of another client.</p> <p>20 So as the injunction is written, that is my</p> <p>21 understanding, is that it would be a violation.</p> <p>22 BY MR. VANDEVELDE:</p> <p>23 Q. What if instead of saying -- the dev</p> <p>24 instruction, instead of saying "delete line 200," it</p> <p>25 said "delete the line where Function F is called,"</p> | <p>Page 148</p> <p>1 violating the injunction?</p> <p>2 MR. POLITO: Objection. Vague. Incomplete</p> <p>3 hypothetical. Object to the extent it calls for a</p> <p>4 legal conclusion.</p> <p>5 THE WITNESS: I wasn't asked, Counsel, to</p> <p>6 specifically identify or address how Rimini could</p> <p>7 adjust its business practices to ensure that it</p> <p>8 didn't fall afoul of the injunction. So I haven't</p> <p>9 thought that hypothetical through with sufficient</p> <p>10 diligence to be able to offer you any answer of how</p> <p>11 they could do that.</p> <p>12 As I said in my other deposition, I think,</p> <p>13 the first point would be perhaps to confer with</p> <p>14 their counsel to get guidance on what actions are</p> <p>15 permitted and what actions are not permitted. And</p> <p>16 then to address their business process accordingly</p> <p>17 in ways --</p> <p>18 BY MR. VANDEVELDE:</p> <p>19 Q. So Rimini -- if -- if Rimini identified --</p> <p>20 if Rimini has a Client A that has a very serious</p> <p>21 bug, it's very serious, it causes a complete</p> <p>22 malfunction. The PeopleSoft software is not able to</p> <p>23 function properly. And it's a very simple fix. It</p> <p>24 requires the deletion of one line in an Oracle file.</p> <p>25 And 50 other clients have the same version of</p> |

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1 BY MR. VANDEVELDE:
2 Q. So in this paragraph, on the fourth line,
3 you said:
4 "Instead of developing updates only
5 as needed and only for a particular
6 customer, Rimini groups customers
7 together and provides semi-regular
8 software bundles, such that multiple
9 customers receive the same updates."
10 What do you mean by "only as needed"?
11 A. Well, as discussed probably in more detail
12 in my Rimini II report, it's clear that Rimini was
13 attempting to consolidate some of the code, for
14 instance, the tax --
15 (Stenographer clarification.)
16 THE WITNESS: -- the tax960st, I believe,
17 was the one I discussed in my first report, with an
18 eye to moving the customer base towards a more
19 consolidated code base that would be easier for
20 Rimini to maintain with blanket changes that could
21 be issued to all customers.
22 And so what I'm talking about there is the
23 fact that obviously for Rimini, if groups of
24 customers have exactly the same software -- and they
25 had developed tools to verify that they used in the

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1 preinjunction period. They are able to determine
2 that the exact same change could be sent to a
3 customer.
4 And in many cases, the testing can also be
5 shortcut so that they don't have to do a full test,
6 but rather a partial test, to take advantage of the
7 symmetry in those environments.
8 BY MR. VANDEVELDE:
9 Q. Did you identify in your analysis in this
10 case any update implemented for a client after the
11 injunction that you contend the client did not need?
12 A. I don't recall specifically if I did or
13 didn't, Counsel.
14 Q. If you did, would it be in your report?
15 A. It would be in my report, yes.
16 Q. Do you contend that the injunction
17 prohibits Rimini from identifying and grouping
18 customers together based upon what updates they
19 need?
20 MR. POLITO: Objection to the extent it
21 calls for a legal conclusion.
22 THE WITNESS: I don't think the injunction
23 addresses Rimini's ability to document the versions
24 of software, for instance, that its customers are
25 using. It's rather grouping them from the

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1 standpoint of distributing updates and using updates
2 that were developed on one customer's machine to
3 distribute to multiple customers. That's my
4 understanding.
5 BY MR. VANDEVELDE:
6 Q. Is the grouping alone sufficient to violate
7 the injunction in your view, or is it only once the
8 updates are delivered or implemented for each of the
9 clients in that grouping?
10 MR. POLITO: Objection. Compound.
11 THE WITNESS: You lost me a little bit
12 there, Counsel. Can you just ask the question,
13 again or ask it as a two-part question so I can
14 address each part individually?
15 BY MR. VANDEVELDE:
16 Q. Is the grouping in and of itself, in your
17 view, a violation of the injunction, meaning
18 identifying the group of clients that may need a
19 particular update?
20 MR. POLITO: Objection. Asked and
21 answered.
22 THE WITNESS: Yeah, I don't think that
23 identifying what software customers are using or
24 what updates they might be is -- or what -- what
25 parts of that software Rimini update is enjoined.

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1 BY MR. VANDEVELDE:
2 Q. Got it.
3 Do you contend that the injunction
4 prohibits updates if they are put out on a
5 semi-regular basis?
6 MR. POLITO: Objection. Vague.
7 THE WITNESS: To the extent that they're
8 developed on one customer's environment and then
9 distributed to other customers, it's my
10 understanding that that -- whether it's a regular
11 basis or a sporadic basis wouldn't matter. It's the
12 action that they're taking that matters.
13 MR. VANDEVELDE: If we could show
14 paragraph 41 of the same document.
15 BY MR. VANDEVELDE:
16 Q. I won't read the whole paragraph, but this
17 paragraph pertains to Rimini's quality assurance --
18 QA process; correct?
19 A. That's correct, yes.
20 Q. And you contend that in certain ways,
21 Rimini's QA process constitutes cross-use, in
22 violation of the injunction?
23 A. To the extent that they are creating test
24 plans or test data or test results on one customer's
25 machine and then reusing those for the support of

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1 Whereas the system is typically the -- as
 2 I've defined elsewhere in my report, it's the actual
 3 computer and the software that constitutes how it's
 4 configured for a particular purpose. So --
 5 BY MR. VANDEVELDE:
 6 Q. The --
 7 A. -- the software -- the computer with the
 8 software running on it.
 9 Q. Can a virtual machine ever be a computer
 10 system?
 11 MR. POLITO: Objection. Overbroad. Object
 12 to the extent it calls for a legal conclusion.
 13 THE WITNESS: A virtual machine is really,
 14 from a technical perspective, a very smart piece of
 15 software that pretends to be a computer system. But
 16 the virtual machine doesn't have an independent
 17 existence. It must still run on a physical computer
 18 system.
 19 So I would draw a distinction between a
 20 virtual machine and a computer system for that as
 21 well as for other reasons.
 22 BY MR. VANDEVELDE:
 23 Q. So the answer is, no, you don't think
 24 there's any distinction? Sorry. You think that a
 25 virtual machine can never be a computer system?

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1 MR. POLITO: Same objections.
 2 THE WITNESS: A virtual machine can provide
 3 the services comparable to those provided by -- or
 4 perhaps even almost identical to those provided by a
 5 particular computer system, but it is separate from
 6 the computer system upon which it runs, even if
 7 there's only one virtual machine on the system.
 8 BY MR. VANDEVELDE:
 9 Q. You refer in your paragraph 14 to Amazon
 10 Web Services.
 11 Did you analyze any client's Amazon Web
 12 Services account in connection with this report or
 13 your analysis in this case?
 14 A. I do not recall specific analysis with
 15 respect to any AWS account, no. But I am aware that
 16 there are some AWS accounts from the work that I did
 17 in the Rimini II case.
 18 Q. Are you aware -- or sorry. Strike that.
 19 Did you determine that any Rimini clients
 20 stored their PeopleSoft software support materials
 21 in any AWS account after the injunction was entered
 22 in this case?
 23 MR. POLITO: Objection. Vague.
 24 THE WITNESS: I'm sorry. Would you ask
 25 that again, Counsel. Am I aware that who stored the

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1 PeopleSoft materials?
 2 BY MR. VANDEVELDE:
 3 Q. Did you determine that any Rimini client
 4 stored their PeopleSoft software support materials
 5 in any AWS account after the injunction was entered
 6 in this case?
 7 MR. POLITO: Objection. Vague. Compound.
 8 THE WITNESS: Give me just a moment to
 9 reflect, Counsel. I don't recall rendering an
 10 opinion on that.
 11 Can you ask the question one more time?
 12 BY MR. VANDEVELDE:
 13 Q. Did you determine that any Rimini client
 14 stored their PeopleSoft software and support
 15 materials in any AWS account after the injunction
 16 was entered in this case?
 17 MR. POLITO: Same objections.
 18 THE WITNESS: As I sit here, I do not
 19 recall offering any opinion on customer's behavior
 20 with respect to where they were storing materials in
 21 an AWS account.
 22 BY MR. VANDEVELDE:
 23 Q. In this paragraph 14, you say:
 24 "The plain meaning of 'facilities' is
 25 limited to locations or premises owned or

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1 leased."
 2 Let's pause there.
 3 Is there a difference in your mind between
 4 locations and premises?
 5 A. There is somewhat. I mean, I have visited,
 6 for instance, colocation premises that had within
 7 their facility a -- specific locations, for
 8 instance, a particular floor of the premise might be
 9 dedicated to a specific customer, or a specific cage
 10 within the facility might be dedicated to a specific
 11 customer for security reasons. So I don't think of
 12 the two as being identical.
 13 Q. Which one is which? I don't understand
 14 your example. Which one is the location? Which one
 15 is the premise?
 16 A. The premise generally would correspond to
 17 the geographical position of a building or a campus,
 18 and the location might further refine premise by
 19 identifying a specific building or floor or cage
 20 within that location.
 21 Q. And so when you mean "location," does that
 22 mean only physical locations?
 23 MR. POLITO: Objection. Overbroad.
 24 THE WITNESS: That is my understanding of
 25 it with respect to facilities, yes. It's a

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[illegible]

24 THE WITNESS: I would have to look back to
25 the specific dates that that material was produced.

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23 Q. Okay. Did you analyze any network
24 configurations for virtual machines in your report
25 in this proceeding?

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1 A. Beyond identifying some of the
 2 [REDACTED]
 3 [REDACTED]
 4 [REDACTED]
 5 Q. Did you analyze whether a -- folder
 6 permissions on client systems after entry of the
 7 injunction?
 8 MR. POLITO: Objection. Vague. Overbroad.
 9 Incomplete hypothetical.
 10 THE WITNESS: Again, Counsel, I'm not sure
 11 that I received any evidence for folder permissions
 12 that I know as I sit here to be after the time
 13 period of the injunction. So I'm not able to answer
 14 that question without looking back to the underlying
 15 evidence and identifying the dates that I have. I
 16 would present that analysis in my report.
 17 BY MR. VANDEVELDE:
 18 Q. Your report doesn't analyze any folder
 19 permissions after entry of the injunction; correct?
 20 A. There may be a quotation in there from -- I
 21 believe it was COE, about what the customer was
 22 representing with respect to its access, but I did
 23 not verify individual folder permission accesses or
 24 comment on any in this report.
 25 Q. Your report doesn't analyze the

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1 installation of any software -- or uninstallation of
 2 any software, does it?
 3 MR. POLITO: Objection. Compound. Vague.
 4 THE WITNESS: I would have to refresh my
 5 recollection with respect to whether any of the dev
 6 instructions specifically uninstalled programs or
 7 replaced them in the provision of the update. But
 8 beyond something like that, I don't recall anything
 9 that would have been in this report.
 10 BY MR. VANDEVELDE:
 11 Q. Your report doesn't analyze the
 12 configurations of client machines, does it?
 13 A. I provide some analysis with respect to the
 14 AFW configurations in the way that those client
 15 machines -- based on the somewhat limited evidence I
 16 have, interact with AFW on Rimini's servers. So I
 17 do provide some analysis specifically directed to
 18 the AFW and FTP servers.
 19 Q. Do you provide any --
 20 A. I don't talk about their configuration in
 21 any more broader sense. It's very specific to the
 22 facts of this case.
 23 Q. Are you holding yourself out as an expert
 24 in ERP software licensing?
 25 A. No. That is not expertise that I was hired

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1 for in this matter.
 2 Q. In preparing your report, did you speak to
 3 anyone who worked at PeopleSoft?
 4 A. By "PeopleSoft," I assume you're including
 5 the parent company, Oracle.
 6 Q. Let's break it down.
 7 Before the acquisition, did you speak to
 8 anyone who worked at PeopleSoft before Oracle
 9 acquired it?
 10 A. I don't know whether any of the Oracle
 11 individuals with whom I spoke in the preparation of
 12 the Rimini report may have worked for Oracle
 13 before -- or may have worked for PeopleSoft before
 14 the acquisition because I know some employees
 15 transferred over. So I don't know the answer to
 16 that as I sat here.
 17 Q. I believe at the outset of this deposition,
 18 you said you had not spoken to any Oracle employees
 19 in connection with the preparation of your report in
 20 this matter.
 21 Is that still the case?
 22 A. In preparation with -- with respect to the
 23 reports in the post-injunction matter. The only
 24 Oracle individual I can recall speaking with at all
 25 was counsel for Oracle, not any of their technical

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1 people. And I think he was on a couple of calls I
 2 was on. I don't recall any specific in-depth
 3 conversations with him at all, but I am aware that
 4 he was present on a couple of calls.
 5 Q. Do you know -- do you know whether he
 6 worked at PeopleSoft?
 7 A. I don't know that. I don't know that at
 8 all. And so that's what I'm saying is I really
 9 don't know. But he's the only Oracle individual
 10 that I can recall having even said hello to since
 11 the beginning of this report -- or these reports,
 12 actually. My opening report and the rebuttal
 13 report.
 14 Q. Are you offering any facts about what may
 15 or may not have motivated PeopleSoft to include
 16 facilities restriction in some of their licensing
 17 agreements?
 18 MR. POLITO: Objection. Calls for a legal
 19 conclusion.
 20 THE WITNESS: I provide, I believe, my
 21 understanding of why such a -- why such a
 22 restriction might exist from a technical basis, but
 23 I do not opine specifically on Oracle or
 24 PeopleSoft's motives in implying that.
 25 I just give some technical background about

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1 why virtualized machines are different than physical
 2 machines, and why some of those considerations might
 3 be something that a licensor of software might want
 4 to consider.
 5 BY MR. VANDEVELDE:
 6 Q. Who would you think has superior knowledge
 7 of the intent behind the provisions in Oracle's
 8 PeopleSoft licenses, yourself or Richard Allison,
 9 who is Oracle's executive vice president and head of
 10 licensing?
 11 MR. POLITO: Objection. Vague. Outside
 12 the scope. To the extent it calls for a legal
 13 conclusion.
 14 THE WITNESS: You're saying who -- who have
 15 more understanding of Oracle's motivations?
 16 BY MR. VANDEVELDE:
 17 Q. Or the PeopleSoft software licenses, you or
 18 Richard Allison, who's head of licensing at Oracle?
 19 MR. POLITO: Same objections.
 20 THE WITNESS: I don't know the answer to
 21 that because I don't know if Mr. Allison was there
 22 when those licenses were written. But if he was,
 23 then he would be in a much better position than I to
 24 speak to Oracle or PeopleSoft's motivation. And if
 25 he wasn't, then it's probably somebody else that you

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1 haven't named yet.
 2 MR. VANDEVELDE: Why don't we take a
 3 10-minute break that if works for you.
 4 MR. POLITO: That's okay with me.
 5 Barb?
 6 THE WITNESS: Works fine for me.
 7 MR. VANDEVELDE: Great. Let's do that.
 8 Thank you.
 9 THE VIDEOGRAPHER: The time is 4:33. We
 10 are going off the record.
 11 (Recess taken, from 4:33 to 4:46.)
 12 THE VIDEOGRAPHER: The time is 4:46. We
 13 are back on the record.
 14 BY MR. VANDEVELDE:
 15 Q. Ms. Frederiksen-Cross, you understand
 16 you're still under oath?
 17 A. I do.
 18 Q. Would you agree that JDE support customers
 19 may need tax updates, tax, legal, and regulatory
 20 updates?
 21 A. I would expect that they might, yes.
 22 Q. Okay. So if the law changes, if a JDE
 23 client licensee can't update their software, then
 24 that would pose a problem for them?
 25 MR. POLITO: Objection. Overbroad.

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1 THE WITNESS: If a JDE client using that
 2 software was unable to update it to accommodate some
 3 change in law, I think that would be problematical
 4 for them if they were using that part of the
 5 software.
 6 BY MR. VANDEVELDE:
 7 Q. Let's look at your opening report, which is
 8 1854. Paragraph 313, if that could be put up. It's
 9 towards the end. Around page 115, although mine
 10 might be paged slightly differently.
 11 A. That's the paragraph that says "based on my
 12 experience in the industry"?
 13 Q. Yeah. It says "Based" --
 14 A. At PDF -- or at page 116 of the printed
 15 copy, and it's probably off by a few in the PDF.
 16 Q. Okay. Great. Yeah, there it is.
 17 It says:
 18 "Based on my experience in the
 19 industry and my review of JD Edwards
 20 support materials, 'open code' and
 21 'closed code' are both 'source code.'
 22 'Source code' means source code: Code in
 23 human-readable format."
 24 Does opening a code file, regardless of
 25 whether it's open code or closed code, cause the

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1 file to be temporarily copied into RAM?
 2 MR. POLITO: Objection. Assumes facts.
 3 Vague.
 4 THE WITNESS: At least a part of the file
 5 would be typically -- or will be copied into RAM.
 6 And, you know, in modern systems, it's normally the
 7 whole file.
 8 BY MR. VANDEVELDE:
 9 Q. And so viewing the file would also cause a
 10 copy of at least a portion of the file to be loaded
 11 into RAM?
 12 MR. POLITO: Same objections.
 13 THE WITNESS: That is correct, yes.
 14 BY MR. VANDEVELDE:
 15 Q. And necessarily modifying a code file,
 16 regardless of whether it's open or closed, would
 17 necessitate a portion or all of that file being
 18 copied into RAM?
 19 MR. POLITO: Objection. Assumes facts.
 20 Vague.
 21 THE WITNESS: Short of using a -- a desk
 22 editor against the raw bytes of the disk, to edit a
 23 file it would necessitate copying it into RAM.
 24 BY MR. VANDEVELDE:
 25 Q. Same with compiling the file?

| | |
|--|--|
| <p style="text-align: right;">Page 269</p> <p>1 A. That is correct.</p> <p>2 Q. So by logic, you're testifying that Rimini</p> <p>3 is prohibited under the injunction from opening a</p> <p>4 JDE code file regardless of whether it's open or</p> <p>5 closed code?</p> <p>6 A. That appears to be consistent with the</p> <p>7 language of the -- I mean, that is my understanding</p> <p>8 as a technical person of this language.</p> <p>9 If I was told I could not copy a file, I</p> <p>10 would read from that, as a software engineer, that I</p> <p>11 could not modify that file.</p> <p>12 Q. And you couldn't even view that file;</p> <p>13 correct?</p> <p>14 A. That's correct as well.</p> <p>15 Q. And you couldn't compile that file?</p> <p>16 A. That is also correct.</p> <p>17 Q. How could Rimini direct, even assuming it's</p> <p>18 allowed, the licensee to take certain actions,</p> <p>19 without being able to look at any of the code?</p> <p>20 MR. POLITO: Objection. Incomplete</p> <p>21 hypothetical.</p> <p>22 THE WITNESS: That's an interesting</p> <p>23 question, Counsel. And, again, another thing that I</p> <p>24 was not asked to analyze or tried to discover in the</p> <p>25 course of my work. So I don't have an answer for</p> | <p style="text-align: right;">Page 271</p> <p>1 But if your point is that the database --</p> <p>2 the software that controls the database and that</p> <p>3 performs the search has to be in RAM, I would agree</p> <p>4 with you.</p> <p>5 Q. Does configuring Oracle database and then</p> <p>6 testing those configurations require running the</p> <p>7 database software?</p> <p>8 MR. VANDEVELDE: Objection. Overbroad.</p> <p>9 Exceeds the scope.</p> <p>10 THE WITNESS: Some configuration options,</p> <p>11 those that are done through central configuration</p> <p>12 files, can be done without running the database.</p> <p>13 But significant changes that would affect the</p> <p>14 database operation, you know, the allocation of</p> <p>15 storage, the allocation of buffers, any kind of</p> <p>16 structuring change, those would require the DBMS</p> <p>17 software to be brought into memory --</p> <p>18 (Stenographer clarification.)</p> <p>19 THE WITNESS: -- the database management</p> <p>20 software to be brought into memory and run in order</p> <p>21 for you to make that change.</p> <p>22 BY MR. VANDEVELDE:</p> <p>23 Q. Even for simple -- what you call simple</p> <p>24 configurations, if you wanted to test those simple</p> <p>25 configurations, you would have to run the database</p> |
| <p style="text-align: right;">Page 270</p> <p>1 that.</p> <p>2 BY MR. VANDEVELDE:</p> <p>3 Q. Let's turn to the Oracle database.</p> <p>4 When an Oracle database is run, is the</p> <p>5 Oracle database software, or at least a portion of</p> <p>6 it, temporarily loaded -- temporarily loaded into</p> <p>7 RAM?</p> <p>8 A. Yes, it is.</p> <p>9 Q. And would you agree that Oracle database</p> <p>10 needs to be running to, for example, run a query</p> <p>11 against the database?</p> <p>12 A. So long as the query is against the Oracle</p> <p>13 database and not some other type of database, yes.</p> <p>14 Q. Okay. And so to develop a query and to</p> <p>15 test that query, you would need to run it against</p> <p>16 the Oracle database, which would need to be in RAM;</p> <p>17 correct?</p> <p>18 A. The database management software would be</p> <p>19 in RAM. The portions of the data you were querying</p> <p>20 or portions of the data that make up that database</p> <p>21 would be brought into RAM as the query ran.</p> <p>22 But you probably wouldn't -- if it was a</p> <p>23 large database, you would probably do that in</p> <p>24 chunks. You wouldn't bring the entire database into</p> <p>25 RAM.</p> | <p style="text-align: right;">Page 272</p> <p>1 software?</p> <p>2 A. In virtually all circumstances. There may</p> <p>3 be some configurations that you could change, that</p> <p>4 you could test without that. For instance,</p> <p>5 redirecting the software to a new location for</p> <p>6 storage of data. You might be able to confirm that</p> <p>7 the data was being stored in that location by</p> <p>8 looking at the storage records of the operating</p> <p>9 system.</p> <p>10 But to see if the data looked right or if</p> <p>11 there was any defect in that process or any</p> <p>12 unintended consequence, you would need to test it,</p> <p>13 and that would mean running the software.</p> <p>14 Q. Oracle database can be run on its own,</p> <p>15 right, meaning without an application layer on top</p> <p>16 of it?</p> <p>17 A. It does provide some built-in</p> <p>18 functionality, yes.</p> <p>19 Q. And you could also have Oracle database</p> <p>20 serve as a -- serve as a database for an -- sorry.</p> <p>21 Strike that.</p> <p>22 You can also have Oracle database serve as</p> <p>23 a database underneath an ERP application; correct?</p> <p>24 A. Some ERP applications, yes.</p> <p>25 Q. One of them is PeopleSoft; correct?</p> |

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1 A. Sure.
 2 Q. JDE is another one?
 3 A. M-hm. That's correct. Yes.
 4 Q. Also non-Oracle ERP applications, like SAP
 5 ERP applications; correct?
 6 A. I am aware that there are other vendors who
 7 provide ERP applications that run on Oracle. I just
 8 can't answer in the absolute that every ERP
 9 application out there can run on Oracle. I
 10 suspect --
 11 Q. I'm not asking you that. I'm asking
 12 whether SAP is one of them that can run an Oracle
 13 database.
 14 A. My recollection is that it is, yes.
 15 Q. Assume there's a PeopleSoft environment,
 16 and its underlying database is Oracle database.
 17 If you develop and test updates for that
 18 PeopleSoft environment that interact with the
 19 underlying Oracle database, that would require that
 20 Oracle database or a portion of it be run and loaded
 21 into memory; correct?
 22 MR. POLITO: Objection. Incomplete
 23 hypothetical.
 24 BY MR. VANDEVELDE:
 25 Q. Did you say "correct"?

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1 A. Yeah, if you were -- if you were actually
 2 testing the application and the part of it that used
 3 the database, that would be true for certain, yes.
 4 Q. And that's true if SAP or the Application
 5 Layer 2; correct?
 6 MR. POLITO: Same objection.
 7 THE WITNESS: I haven't analyzed the SAP
 8 code, so I can't address whether there are corner
 9 cases where that might not be true.
 10 But as a general principle, if SAP is
 11 running on top of Oracle and you are testing any
 12 change to SAP that affects its interaction with the
 13 Oracle database, that would be true.
 14 BY MR. VANDEVELDE:
 15 Q. Do you contend that the injunction
 16 prohibits Rimini from running Oracle database?
 17 MR. POLITO: Object to the extent it calls
 18 for a legal conclusion.
 19 THE WITNESS: My understanding of the
 20 injunction is that the court has said specifically
 21 that Rimini Street shall not reproduce, prepare
 22 derivative works from, or distribute Oracle database
 23 software.
 24 And so based on just the plain meaning of
 25 those words, again, as a technical person, I would

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1 be concerned that the prohibition against
 2 reproducing the software could extend to not even
 3 making a copy in memory because that is reproducing
 4 at least a part of the software, the part that
 5 you're interacting with.
 6 BY MR. VANDEVELDE:
 7 Q. Are you offering that opinion?
 8 A. Well, it --
 9 MR. POLITO: Same objection.
 10 THE WITNESS: You're asking me to make a
 11 legal interpretation of the court's ruling. I'm
 12 telling you how I would understand it as a technical
 13 person, that if Rimini is reproducing the Oracle
 14 software -- that is to say, creating a copy of it --
 15 that that would be a prohibited act. That's my
 16 understanding as a technical person reading the
 17 words the court wrote.
 18 BY MR. VANDEVELDE:
 19 Q. Even if that copy is only in RAM?
 20 MR. POLITO: Same objections.
 21 THE WITNESS: I don't see any carve-out for
 22 RAM copies in the injunction, Counsel, so I would
 23 have to assume, absent other clarification, that
 24 that would mean even copies in RAM.
 25 ///

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1 BY MR. VANDEVELDE:
 2 Q. Even a portion of it?
 3 MR. POLITO: Same objection.
 4 THE WITNESS: Even a portion would be
 5 Oracle database software. So to the extent that
 6 that portion was a portion of the Oracle database
 7 software, it appears to me to be prohibited here
 8 based on the clear wording of the injunction.
 9 BY MR. VANDEVELDE:
 10 Q. Do you recall whether the Ninth Circuit
 11 ever analyzed the issue of RAM copies in this case?
 12 MR. POLITO: Object to the extent it calls
 13 for a legal conclusion. Overbroad. Outside the
 14 scope.
 15 THE WITNESS: I don't recall specifically.
 16 I was thinking of that as I gave you my answer,
 17 Counsel, because I don't recall specifically that
 18 they were ruling on that. But if you want to direct
 19 me to any part of their ruling, I'm happy to review
 20 it with you.
 21 BY MR. VANDEVELDE:
 22 Q. No. I'm asking you whether you recall the
 23 Ninth Circuit discussing RAM copies. It sounds like
 24 no, but if you recall something, let me know.
 25 MR. POLITO: Same objection. Asked and

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1 on that kind of system, it might be in the same
2 physical block of memory, but it is a different
3 chunk of memory that's allocated to the video
4 processor. And where a separate processing units is
5 completely separate.
6 BY MR. VANDEVELDE:
7 Q. Is that -- okay. And I'm going to use the
8 word "video buffer" --
9 (Stenographer clarification.)
10 BY MR. VANDEVELDE:
11 Q. I'm going to use the phrase "video buffer."
12 Is that display adapter memory continually
13 painting the pixels on the screen to display an
14 image?
15 A. Typically it is, yes.
16 Q. Many times a second?
17 A. Again, typically it is 60 cycles or better
18 normally for ...
19 MR. VANDEVELDE: Okay. Why don't we take a
20 quick break. I think we're getting close.
21 Does that work with you, Barbara and John?
22 MR. POLITO: Fine with me.
23 MR. VANDEVELDE: Okay. Let's do ten more
24 minutes. I think we're close. All right. Thank
25 you.

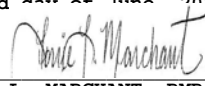
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1 THE VIDEOGRAPHER: The time is 5:27. We
2 are going off the record.
3 (Recess taken, from 5:27 to 5:45.)
4 THE VIDEOGRAPHER: The time is 5:45. We
5 are back on the record.
6 MR. VANDEVELDE: We have no further
7 questions at this time.
8 MR. POLITO: All right. Give us five
9 minutes.
10 MR. VANDEVELDE: Okay.
11 THE VIDEOGRAPHER: The time is 5:45, and we
12 are going off the record.
13 (Recess taken, from 5:45 to 5:53.)
14 THE VIDEOGRAPHER: The time is 5:53. We
15 are back on the record.
16 MR. POLITO: Great.
17 So Oracle has no questions. Thanks very
18 much.
19 MR. VANDEVELDE: Great. Thanks all. Have
20 a good evening and --
21 THE VIDEOGRAPHER: The time is --
22 (Simultaneous speakers - unclear.)
23 MR. POLITO: We have a protective order
24 agreement in this case, so just -- this is highly
25 confidential until it's redesignated/designated as

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1 agreed by the parties.
2 THE VIDEOGRAPHER: Shall we go off the
3 record now?
4 MR. POLITO: Yes, please.
5 MR. VANDEVELDE: Thanks, everyone, for you
6 help. Have a good evening.
7 (Stenographer clarification.)
8 THE VIDEOGRAPHER: The time is 5:54. This
9 concludes the deposition. Thank you.
10 THE STENOGRAPHER: Okay. I just need to
11 check.
12 Eric, you have a standing order.
13 And, John, do you also need the e-mailed
14 rough and a 2-day expedite also?
15 MR. POLITO: I'm sure we have a standing
16 order. I probably don't have the authority to
17 change it, so ...
18 THE STENOGRAPHER: Okay. I don't see the
19 standing order on here. I can double-check, but if
20 it sounds right to you --
21 MR. POLITO: It sounds right to me. I can
22 have our paralegal reach out to you with
23 confirmation because she is the person in charge.
24 THE STENOGRAPHER: Sounds good. All right.
25 (Deposition concluded at 5:54 p.m.)

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1 **REPORTER'S CERTIFICATE**
2 I, LORRIE L. MARCHANT, Certified Shorthand
3 Reporter, Certificate No. 10523, for the State of
4 California, hereby certify that BARBARA
5 FREDERIKSEN-CROSS was by me duly sworn/affirmed to
6 testify to the truth, the whole truth and nothing
7 but the truth in the within-entitled cause; that
8 said deposition was taken at the time and place
9 herein named; that the deposition is a true record
10 of the witness's testimony as reported to the best
11 of my ability by me, a duly certified shorthand
12 reporter and a disinterested person, and was
13 thereafter transcribed under my direction into
14 typewriting by computer; that request [] was [X]
15 was not made to read and correct said deposition.
16 I further certify that I am not interested
17 in the outcome of said action, nor connected with,
18 nor related to any of the parties in said action,
19 nor to their respective counsel.
20 IN WITNESS WHEREOF, I have hereunto set my
21 hand this 22nd day of June, 2020.
22 
23 LORRIE L. MARCHANT, RMR, CRR, CCRR, CRC
24 Stenographic Certified Shorthand Reporter #10523
25